k. moerie

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1653

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/068,253

DATE: 04/20/2001 TIME: 12:57:28

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3 <110> APPLICANT: SHIMURA, Takesada
        TORIYAMA, Satsuki
 6 <120> TITLE OF INVENTION: CARTILAGE/ BONE INDUCING MATERIALS FOR REPARATION
8 <130> FILE REFERENCE: 146.1286
10 <140> CURRENT APPLICATION NUMBER: 09/068,253
11 <141> CURRENT FILING DATE: 1998-06-09
13 <150> PRIOR APPLICATION NUMBER: PCT/JP96/03333
14 <151> PRIOR FILING DATE: 1996-11-14
16 <150> PRIOR APPLICATION NUMBER: JP 7/322402 \Rightarrow
17 ★151> PRIOR FILING DATE: 1995-11-17
19 <160> NUMBER OF SEQ ID NOS: 4
21 <170> SOFTWARE: PatentIn Ver. 2.1
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24 <211> LENGTH: 357
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
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30 <222> LOCATION: (1)..(357)
31 <223> OTHER INFORMATION: Relevant amino acid residues in SEQ ID NO: 1 from
        1 to 119 in WO 95/04819
32
34 <300> PUBLICATION INFORMATION:
35 <301> AUTHORS: HOTTEN, Gertrud
        NEIDHARDT, Helge
3.7
        PAULISTA, Michael
38 <302> TITLE: NEW GROWTH/DIFFERENTIATION FACTOR OF THE TGF-BETA
        FAMILY
40 <310> PATENT DOC NO: WO 95/04819
41 <311> PATENT FILING DATE: 1995-02-16
42 <313> RELEVANT RESIDUES: 1 TO 119
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45 cca ctg gcc act cgc cag ggc aag cga ccc agc aag aac ctt aag gct
46 Pro Leu Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala
                                        10
                                                            15
49 cgc tgc agt cgg aag gca ctg cat gtc aac ttc aag gac atg ggc tgg
                                                                      96
50 Arg Cys Ser Arg Lys Λla Leu His Val Asn Phe Lys Λsp Met Gly Trp
               20
                                    25
53 gao gao tgg ato ato goa doo ott gag tad gag got the ead tgo gag
54 Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu
                                40
57 ggg ctg tgc gag ttc cca ttg cgc tcc cac ctg gag ccc acg aat cat
58 Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Clu Pro Thr Asn His
                            55
61 gca gtc atc cag acc ctg atg aac tcc atg gac ccc gag tcc aca cca
62 Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro
                        70
65 ccc acc tgc tgt gtg ccc acg cga ctg agt ccc atc agc atc ctc ttc
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 $\mathfrak{D}_{\lambda}^{(i)}$

Output Set: N:\CRF3\04202001\1068253.raw

66 Pro Thr Cys Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe 85 69 att gac tot gcc aac aac glg gtg tat aag cag tat gag gac atg gtc 70 Ile Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val 100 357 73 gtg gag tcg tgt ggc tgc agg 74 Val Glu Ser Cys Gly Cys Arg 75 115 78 <210> SEQ ID NO: 2 79 <211> LENGTH: 119 80 <212> TYPE: PRT 81 <213> ORGANISM: Homo sapiens 83 <400> SEQUENCE: 2 84 Pro Leu Ala Thr Arg Gln Gly Lys Arg Pro Ser Lys Asn Leu Lys Ala 1. 🕺 10 87 Trg Cys Ser Arg Lys Ala Leu His Val Asn Phe Lys Asp Met Gly Trp 88 , 20 25 90 Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu 91 35 40 93 Gly Leu Cys Glu Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His 94 5 50 55 . 60 96 Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro 97 . 65 70 75 99. Pro Thr Cys Cys Val Pro Thr Arg Leu Ser Pro Ile Ser Ile Leu Phe 100 90 85 , 102 Ile, Asp Ser Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val 103 100 105 110 105 Val Glu Ser Cys Gly Cys Arg 115 110 <210> SEQ ID NO: 3 11.1 <21.1> LENGTH: 27 112 <212> TYPE: DNA 113 <213> ORGANISM: Artificial Sequence 115 <220> FEATURE: 116 <223> OTHER INFORMATION: Description of Artificial Sequence: 117 oligonucleotide 119 <220> FEATURE: 120 <221 NAME/KEY. $misc_feature$ 121 <222> LOCATION: (1)..(27) 122 <223> OTHER INFORMATION: PCR forward primer for isolating mature-type MP52 124 < 00> SEQUENCE: 3 27 125 ataatgccac tagcaactcg tcagggc 128 <210> SEQ TD NO: 4 129 <211> LENGTH: 26 130 <212> TYPE: DNA 131 <213> ORGANISM: Artificial Sequence 133 <220> FEATURE:

134 <223> OTHER INFORMATION: Description of Artificial Sequence:

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Output Set: N:\CRF3\04202001\1068253.raw

137 <220> FEATURE:

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. 26

VERIFICATION SUMMARY

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